

Kepital® FG2025

Acetal (POM) Copolymer

Korea Engineering Plastics Co., Ltd

Message:

A medium-high viscosity grade for general injection molding. It was reinforced with glass fiber, and so suitable for parts requiring very high stiffness, fatigue resistance, creep resistance and heat resistance.

General Information			
UL YellowCard	E120354-220452	E120354-220453	
Filler / Reinforcement	Glass Fiber		
Features	Fatigue Resistant		
	Good Creep Resistance		
	High Heat Resistance		
	Medium-high Viscosity		
	Ultra High Stiffness		
Uses	Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	7.0	g/10 min	ASTM D1238
--	7.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	0.50	%	ASTM D955
3.00 mm	0.50	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	152	MPa	ASTM D638
Yield, 23°C	160	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
23°C	8850	MPa	ASTM D790
23°C	8250	MPa	ISO 178
Flexural Strength			
23°C	212	MPa	ASTM D790
23°C	220	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (3.20 mm)	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	164	°C	ASTM D648
1.8 MPa, Unannealed	162	°C	ISO 75-2/A
Peak Melting Temperature	165	°C	ASTM D3418
CLTE - Flow (20 to 80°C)	2.0E-5 to 3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257, IEC 60093
Dielectric Strength	23	kV/mm	ASTM D149, IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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